

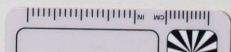
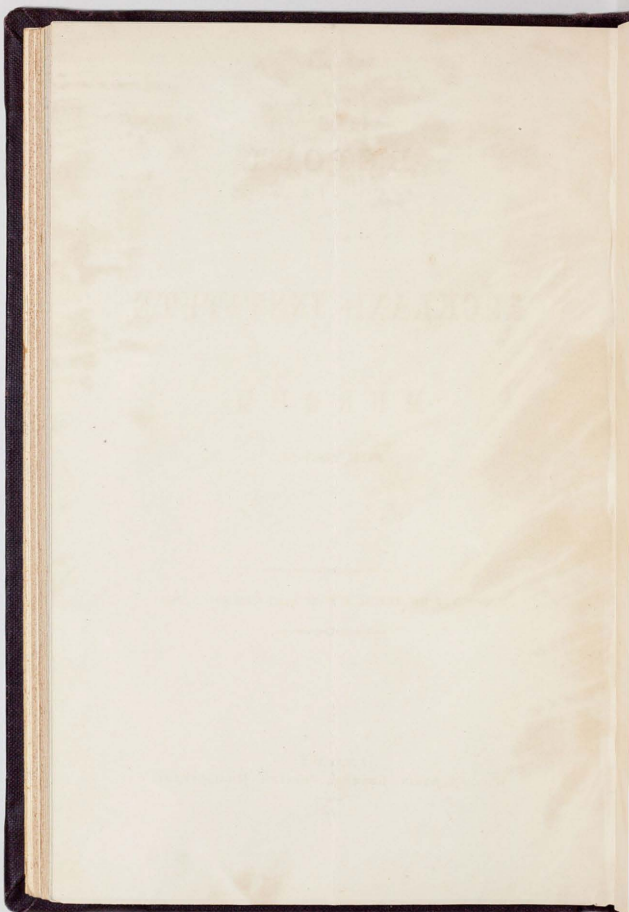
AIM Ann Report
1880 to 1881

REPORT
OF THE
AUCKLAND INSTITUTE
AND
MUSEUM
FOR 1880-81.

ADOPTED AT THE ANNUAL MEETING HELD FEBRUARY 21, 1881.

AUCKLAND:
WILLIAM ATKIN, GENERAL PRINTER, HIGH STREET.
1881.

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1880 to 1881

REPORT

OF THE

AMERICAN INSTITUTE

FOR THE

TEACHING

OF THE

ARTS AND

SCIENCE

IN THE

UNITED STATES

OF AMERICA

FOR THE

YEAR 1880-81

PRESENTED TO THE

BOARD OF

MANAGEMENT

OF THE

INSTITUTE

BY THE

SECRETARY

WILLIAM

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WILLIAM

CM IN



1881.

OFFICERS
OF
THE AUCKLAND INSTITUTE.

COUNCIL.

President:

T. PEACOCK, ESQ.

AICKIN, G. ESQ.

BATES, REV. J.

CAMPBELL, J. L., ESQ., M.D.

HAULTAIN, HON. COL.

HEATH, NEIL, ESQ., F.G.S.

MACKECHNIE, E. A., ESQ.

MARTIN, J. ESQ., F.G.S.

POND, J. A., ESQ.

PURCHAS, REV. A. G., M.R.
C.S.E.

SMITH, S. P., ESQ.

STEWART, J., ESQ., M. INST. C.E.

Secretary and Treasurer:

T. F. CHEESEMAN, ESQ., F.L.S.

Auditor:

T. MACFARLANE, ESQ.

AIM Ann Report
1880 to 1881

1881

OFFICERS
OF
THE AUCKLAND INSTITUTE

COUNCIL

President	Mr. J. H. G. S. S. S.
Vice-President	Mr. J. H. G. S. S.
Secretary	Mr. J. H. G. S. S.
Treasurer	Mr. J. H. G. S. S.
Members	Mr. J. H. G. S. S.

...

*The following Magazines and Periodicals are circulated
amongst the Members:—*

Quarterly Journal of Microscopical Science
Journal of Science
Popular Science Review
Nature
Geological Magazine
Lancet
Scientific American
The Academy
Botanical Magazine
Gardener's Chronicle
Chemical News
Engineering
Science Gossip
Electrical and Telegraphic Review
Journal of the Society of Arts
Annals and Magazine of Natural History

WINTER SESSION, 1881.

Meetings will be held on the following Monday Evenings:—

JUNE 13	SEPTEMBER 5
JULY 11	OCTOBER 3
AUGUST 8	NOVEMBER 7

To commence at 7.30 p.m.

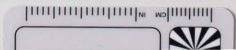
EXTRACTS FROM THE RULES.

1.—Any person desiring to become a member of the Institute, shall be proposed in writing by two Members, and shall be balloted for at the next meeting of the Council.

2.—New Members on election to pay One Pound One Shilling Entrance Fee, in addition to the usual Subscription of One Pound One Shilling, the Annual Subscription being payable in advance on the first day of April for the then current year.

3.—Members may at any time become Life-Members by one payment of Ten Pounds Ten Shillings, in lieu of future Annual Subscriptions.

AIM Ann Report 1880 to 1881



REPORT.

THE Council of the Auckland Institute have now to present to the members a report on the operations and condition of the Institution during the past year.

Thirty additional members have been elected since the last annual meeting. Three names have been removed by death, five have been transferred to other branches of the New Zealand Institute, while seventeen members have either left the colony or ceased to subscribe. The total number on the register is now 277.

The ordinary meetings for the reading of papers have been held as usual, and were fairly attended. With the view of attracting attention to the Society, and possibly adding to the list of members, the Council arranged for the delivery of a series of popular lectures by various gentlemen, to alternate with the regular meetings. The attendance at the lectures was remarkably good, and much public interest was evinced in them; but the Council regret to state that they have not been the means of so largely adding to the number of subscribers as was anticipated. The following is a list of both the lectures and the papers read:—

1. Afghanistan and Central Asia:—by the Right Rev. W. G. COWIE, D.D., Bishop of Auckland.
2. Chromatics, the New Science of Colour:—by J. MARTIN, F.G.S.
3. Edgar Allan Poe—a Study in Morbid Psychology:—by E. A. MACKECHNIE.
4. On the Larva of *Lasiornychus*:—by CAPTAIN T. BROWN.
5. On the Fertilisation of *Thelymitra*:—by T. F. CHEESEMAN, F.L.S.
6. Stray Notes on Art and Literature:—by ALBIN MARTIN.
7. Progress of the Russians in Central Asia:—by the HON. COL. HAULTAIN.
8. On the Larva of *Ceratonathus*:—by CAPTAIN T. BROWN.
9. Description of new species of Nudibranchiate Mollusca:—by T. F. CHEESEMAN, F.L.S.

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10. On Runes:—by NEIL HEATH, F.G.S.
11. On Explosives:—by J. A. POND.
12. Names of Places, their origin and meaning:—by the Rev. J. BATES.
13. On a new genus of Opisthobranchiate Mollusca:—by T. F. CHEESEMAM, F.L.S.
14. On the Spontaneity or Self-action of the Will, as opposed to all doctrines of Necessity:—by the Rev. S. EDGER.
15. Egyptian Lights upon the Exodus of Israel:—by R. C. BARSTOW, R.M.
16. A Day on the Ice around Mont Blanc:—by NEIL HEATH, F.G.S.
17. On a new species of *Loranthus*:—by T. F. CHEESEMAM, F.L.S.
18. On the growth of Sugar Beet in New Zealand:—by DR CURL.
19. On the neglected Forest Products of New Zealand:—by T. KIRK, F.L.S.
20. On some indications of change in the level of the coast line in the north part of the North Island of New Zealand:—by S. PERCY SMITH.
21. On Heredity:—by E. A. MACKECHNIE.

The twelfth volume of the "Transactions of the New Zealand Institute" has been printed during the year, and copies have been duly issued to the members. It is a matter for congratulation that the attempt made in Parliament to strike out the grant of £500 for the printing of the "Transactions" was defeated, and that the issue of vol. xiii. is thus rendered certain.

It is satisfactory to report that the number of visitors to the Museum continues to increase, and that the public interest evinced in it has undergone no abatement. As in former years, the Council have to acknowledge the receipt of a large number of additions and donations, full particulars of which will be found appended. Those of special interest will be briefly alluded to in the following resumé of the work performed in the Museum during the year.

VERTEBRATA.—The most important addition in this class is a series of birds and mammals from the higher portions of the Swiss Alps, forwarded in exchange by the Geneva Museum. The collection of skeletons of vertebrates, mentioned in last year's

report as having been just received from the Royal College of Surgeons, has been unpacked and arranged in the Museum. Several interesting New Zealand birdskins have been presented by Messrs F. H. Combes, E. A. Plumley, and others. A temporary engagement has been made with the well-known taxidermist, Mr A. Reischek, and a large proportion of the skins that have been accumulating for the last few years has been already set up. The Council have pleasure in mentioning that this is principally due to the liberality of Mr J. C. Firth, who kindly forwarded a cheque for £25 at a time when it was doubtful whether the Institute would be able to devote any of its own funds to the purpose.

INVERTEBRATA.—The collections forwarded by the Geneva Museum include excellent sets of European Hemiptera and Hymenoptera. As the species are accurately named by specialists, they will doubtless prove most valuable when the New Zealand forms of these groups come to be studied. A large series of North American Lepidoptera, presented by Captain Elliott, also deserves special notice. During the year the whole of the foreign shells contained in the Museum have been carefully examined, and 1,200 species have been selected and mounted as a type collection. The New Zealand shells have also been re-arranged. Space for the proper exhibition of both collections has been obtained by the erection of a large table-case along the whole length of the south gallery, the cost of this, £50, being defrayed by a few friends of the Museum, as stated in the report for last year.

GEOLOGY AND MINERALOGY.—There are no additions of special importance under this heading, although numerous small donations have been received. The type collection of rocks purchased in London some years back has at last been arranged and placed in the Museum; but from the want of proper cases both it and the type collection of minerals can only be very imperfectly displayed.

CONVERSAZIONE.—With the view of raising funds for the engagement of a taxidermist, the Council determined to give a Conversazione during the month of September last—charging a moderate fee for admission. As the entertainment is doubtless fresh in the memory of most of the members, it will be sufficient to state that it was attended with a greater measure of success than was anticipated, the two evenings yielding over £60 after

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payment of expenses. The thanks of the Institute are due to the numerous ladies and gentlemen who kindly gave their assistance.

ENDOWMENT.—The question of a landed endowment for the Museum has repeatedly engaged the attention of the Council, and the subject has been brought by them before the Waste Lands Board. The Board has favourably recommended the matter to the notice of the Government; and it is hoped that some action may be taken during the next session of Parliament. With the limited revenue of the Institute, it every year becomes more difficult to provide for the rapidly increasing collections, while it is altogether hopeless to expect that the necessary fittings and requisites can be provided, and the Museum made of real use as an educational institution. The Council trust that the Auckland members of Parliament will use their best endeavours to place their Museum on a footing of equality with similar institutions in the Southern provinces, for which, as is well known, ample provision has long since been made.

LIBRARY.—The scientific and reference library of the Institute is fast attaining respectable proportions, and now contains over 1,400 volumes of well-selected works. During the year a grant of £57 10s. has been received under the provisions of the Public Libraries' Subsidies Act. This amount has been expended in the purchase of standard scientific works, now on their way from London. The Council have especial pleasure in drawing attention to a most valuable donation received from Mr J. T. Mackelvie, consisting of a complete series of the publications of the Royal Agricultural Society, and a set of the Proceedings of the Zoological Society from their commencement in 1830 up to 1866; in all seventy-five volumes. Mr Mackelvie's frequent, and always valuable and appropriate donations, both to the Museum and library, have certainly entitled him to the warmest thanks of the Institute. Mention should also be made of a complete set of the publications of the Novara Expedition, obtained through the kind offices of Dr Hochstetter and Dr C. F. Fischer. The Provincial Council Library has at length been removed to form the nucleus of a general library for the people of Auckland. The Council have to acknowledge the receipt of £50 from the City Council as some reimbursement for the expense of maintaining the library

during the four years that it has been under the care of the Institute.

FREE SCHOOL OF ART.—Thanks to the continued and enlightened liberality of Dr Campbell, who defrays all expenses, the School of Art established in the Institute Buildings with the view of enabling the public to take full advantage of Mr Russell's presentation of statuary has been kept up during the year. There has been a full attendance of students, and the instructor reports that the progress made is most encouraging.

In conclusion, the Council wish to tender the thanks of the Institute to those donors to the Museum and Library not mentioned in the body of the report, but whose names will be found recorded in the appended list of donations. Thanks should also be accorded to Messrs W. K. Graham & Co. and Mr Hugh Craig, for their valued services as agents of the Institute in London and San Francisco respectively; also to the Pacific Mail Steamship Co., the New Zealand Shipping Co., and Messrs Shaw, Savill and Co., who have, for some years past, carried freight free all packages intended for the Institute.

The Treasurer in Account with the Auckland Institute.

Dr.

FEBRUARY 9, 1880, TO FEBRUARY 14, 1881.

Cr.

	£	s.	d.
Balance in the Bank of New Zealand, February 9, 1880	17	8	10
Entrance Fees and Subscriptions	282	9	0
Special Subscriptions	41	3	0
Grant to Library under "Public Libraries Subsidies Act"	57	10	0
Grant from City Council for maintenance of Provincial Library	50	0	0
Receipts from Conversazione	81	15	9
Rents	65	0	0
Miscellaneous Receipts	6	7	2

£601 13 9

	£	s.	d.
Books and Periodicals	80	16	2
Additions to Museum, New Fittings	65	17	0
Museum Requisites, Stationery, Printing, Advertising, Post- ages, Gas, Insurance	74	15	1
Curator	150	0	0
Taxidermist	84	10	0
Messenger, Cleaning and Attendance	60	0	0
Expenses of Conversazione	21	6	6
Call from New Zealand Institute towards cost of printing Transactions, vols. xi. and xii.	44	2	6
Miscellaneous Payments	12	18	9
Balance in the Bank of New Zealand, February 14, 1881	7	7	9

£601 13 9

12

INVESTMENT FUND ACCOUNT.

	£	s.	d.
Cash in Auckland Savings Bank, February 9, 1880	40	19	1
Interest to December 31, 1881	2	0	0

£42 19 1

	£	s.	d.
Cash in Savings Bank, February 14, 1881	42	19	1

£42 19 1

Examined and compared with the Books and found to be correct.

THOMAS MACFFARLANE,
Auditor.

T. F. CHEESEMAN,
Treasurer.

Additions and Donations

TO THE

LIBRARY AND MUSEUM.

- Meteorological Report for 1879; Colonial Museum and Laboratory Report for 1879; Buchanan's Grasses of New Zealand, concluding parts; Broun's Coleoptera; Hutton's Mollusca; Corals of New Zealand; Handbook to New Zealand for the Melbourne Exhibition:—The Director of the Geological Survey.
- Parliamentary Papers and Reports; New Zealand Hansard for 1880; Statistics of New Zealand, 1879; Patent Report for 1879; Gill's Savage Life in Polynesia:—The New Zealand Government.
- Statistics of Tasmania for 1879; Walch's Tasmanian Almanac:—The Colonial Secretary, Tasmania.
- Journal of the Royal Society of New South Wales, vol. 13; Report of the Council of Education for 1879; Report of the Department of Mines for 1878 and 1879; Report on certain Museums for Technology and Science:—The Royal Society, New South Wales.
- Proceedings of the Linnean Society of New South Wales, vols. 4, and 5, parts 1 and 2:—The Society.
- Journal and Proceedings of the South Australian Philosophical Society for 1879:—The Society.
- Smithsonian Report for 1877; Geological Exploration of the 40th Parallel, vol. 1; Reports of the American Association for the Advancement of Science for 1877 and 1878; Proceedings of the Californian Academy of Sciences, vol. 6, and 7, part 1:—Received through the Smithsonian Institution.
- Proceedings of the Royal Colonial Institute, vol. 11:—The Royal Colonial Institute.
- Publications of the Novara Expedition, 17 vols.:—The Imperial Academy of Sciences, Vienna.
- Mélanges Orthopterologiques, parts 5 and 6, various pamphlets:—Dr H. Saussure, Geneva.
- Contributions to New Zealand Botany, by S. Berggren:—The Author.
- Proceedings of the Zoological Society from 1830 to 1864, 34 vols.; Publications of the Royal Agricultural Society from the commencement in 1840 to date, 41 vols.; Proceedings of the Geographical Society for 1880:—J. T. Mackelvie.
- Gould's Uranometria Argentina:—D. L. Murdoch.
- Scientific American, vols. 13 to 17; Mechanics' Magazine, 2 vols.; Scientific Review, vol. 1; Quarterly Journal of Science, vols. 1, 2, 3; Popular Science Review, vols. 1 to 5:—A. Sheath.
- Reports of the Department of Agriculture, Victoria, vols. 1, 2, 3, 4:—The Chief Secretary, Victoria.
- Calendar of the New Zealand University for 1880:—The University.
- White's Selborne; Buckland's Curiosities of Natural History; Atkinson's British Birds' Eggs, Chart of the British Birds' Eggs:—W. C. Ryland.
- Zoological Exercises, by Professor Hutton:—The Author.
- Copies of Original Letters from the Army of General Bonaparte in Egypt:—F. E. Maning.
- County Maps of New Zealand:—S. P. Smith.

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Coloured Photograph of Auckland in 1859:—The late J. N. Crombie.
Transactions and Proceedings of the Zoological Society for 1880; Publications of the Paleontological Society for 1879; Mosely's Notes of a Naturalist on the *Challenger*; Thomson's Voyage of the *Challenger*, 2 vols.; Roscoe and Schorlemmer's Inorganic Chemistry, 3 vols.; Schorlemmer's Chemistry of the Carbon Compounds; Cassell's Natural History, 4 vols.; Hinck's British Polyzoa, 2 vols.; Owen's Memoirs on the Extinct Wingless Birds of New Zealand, 2 vols.; Clifford's Lectures and Essays, 2 vols.; Pfeiffer's Monographia Heliceorum Viventium, 5 vols.; Pfeiffer's Monographia Pneumonopomorum, 3 vols.; Hooker's Flora Antarctica, 2 vols.; Dobson's Catalogue of Chiroptera; Sharpe's Catalogue of Birds, vols. 3 and 4; Zoology of the Voyage of the *Erebus* and *Terror*, 2 vols.; Allman's Gymnoblasic Hydroids, 2 vols.; Hooker's Flora of New Zealand, 2 vols.; Record of Zoological Literature, 15 vols.; Von Cotta on Ore Deposits; Chenu's Manuel de Conchyliologie, 2 vols.; Lamarck's Natural History of the Invertebrate Animals, 11 vols.; Finsch and Hartlaub's Ornithology of Central Polynesia; Milne Edwards' History of the Crustacea, 4 vols.; Edwards and Haime's History of the Zoophytes and Corals, 4 vols.:—Purchased, and shortly to arrive from London.

12 Mammals, 52 Birdskins:—Received in exchange from the Geneva Museum.
80 New Zealand Birdskins:—Purchased.
Skins of Impeyan Pheasant:—Mrs Wallis.
Skins of Golden Plover (*Charadrius fulvus*):—E. A. Plumley.
Skins of Kea (*Nestor notabilis*):—J. D. Enys, F.G.S.
25 New Zealand Birdskins:—F. H. Combes.
Skin of Albatross:—Captain Garraway.
Skin of Bittern:—J. Burt.
Penguin, Eggs of Weka, 3 Kiwis:—Acclimatisation Society.
Skins of Bittern and Striped Rail:—Rev. G. Smales.
Skins of Procellaria Parkinsonii:—J. McFlwaine.
Skin of Dabchick:— — Richards.
Skeleton of Mackarel Gull:—R. Leaf.
Skull of Deer, with malformed Antlers:—S. T. George, M.H.R.
4 Deers' Heads:—Deposited by Major George.
Maori Crania:—D. M. Beere, C.E.
Maori Crania:—J. R. Gelling.
Solenognathus spinosissimus:—F. Moore.
Thresher Shark:—F. D. Wrigley.
Flying Fish:—F. D. Fenton.

200 species Hemiptera, 200 species Hymenoptera, 120 species Orthoptera:—Received in exchange from the Geneva Museum.
Large series of North American Lepidoptera:—Captain Elliott.
Exotic Butterflies, Wallace's Leaf Butterfly, model of Colorado Beetle:—J. Martin.
Danaus berenice and other New Zealand Butterflies:—J. Symons.
Cells of Mason Wasp:—W. McLaughlin.
Cells of Mason Wasp:—A. Hastie.
New Zealand Frog (*Liopelma*):—T. Tattersall.
Green Lizard:—H. Wily.
Tree Lizard:—M. Rawlings.
New Zealand and Foreign Shells:—G. Johnstone.
New Zealand Shells:—T. L. White.
New Zealand Shells:—T. F. Cheeseman.
Shells from the Chatham Islands:—A. Shand.
Living specimens of *Helix Bushyi*:—J. Webster.

Collection of English Minerals and Rocks:—G. Graham, London.
Rock Crystal from Coromandel:—J. Preece.

Alluvial Gold from Tuapeka, Otago :—S. T. George, M.H.R.
Specimens of Sulphur from Sicily; block of Obsidian, various Rocks and Minerals :—J. A. Pond.
Block of Obsidian :—J. Roycroft.
Large Crystals of Fluor-spar :—J. T. Mackelvie.
Volcanic Bomb :—J. Barton.
Volcanic Bomb :—G. Traquair.
Rock Specimens from Kaukapakapa :—Neil Thompson.
Cape Diamond, with associated rocks :—M. Montague.
Fossil Shells from Miranda :—M. Carter.
Specimens of *Pecten Hochstetteri* :—A. K. McDonald.
Patent Fuel manufactured from Waikato Coal :—J. T. Mackelvie.
Manganese and Iron Ores, various Minerals :—J. Dennison.

Maori Carvings; Shoes from Lapland; large collection of Coins and Medals :—J. T. Mackelvie.
Stone Tomahawks, Greenstone Ornaments :—E. S. Ruddle.
Stone Mere, Maori Paddle :—F. E. Maning.
Maori Stone Adze :—W. Catcheon.
Stone Adze from the Chatham Islands :—Mrs Beamish.
Tobacco Pipes made by Maoris :—A. G. Hughes.
Stone Adze, Queensland :—R. Stanier.
Fijian Spear :—Miss Dobie.
Collection of English Pasture Grasses :—Sutton & Sons, per Mr J. Farmer.
Curiosities from Abyssinia :—A. H. Speedy.
Model of Porchester Castle :—T. Binsted.
Portions of Atlantic Telegraph Cable :—W. C. Ryland.

AIM Ann Report 1880 to 1881

AUCKLAND INSTITUTE.

LIST OF MEMBERS

For the year ending March 31, 1881.

[LIFE MEMBERS DISTINGUISHED THUS *].

Adams, J., B.A., Thames
Aickin, G., Auckland
Aitken, W., Auckland
Alexander, J., Auckland
Allwright, H., C.E., Auckland
Anderson, H. F., Auckland
Anderson, W., Auckland
Atkin, W. Auckland
Atkin, W., Tamaki

Baber, J., C.E., Remuera
Bagnall, L. J., Thames
Baker, Rev. S., Auckland
Ball, T., Mangonui
Ball, W. T., Auckland
Barber, H. P., Parnell
Barstow, R. C., R.M., Auckland
Bartley, E., Devonport
Bates, Rev. J., Devonport
Batger, J., Auckland
Beere, D. M., C.E., Auckland
Beere, G. B., Hamilton
Beetham, A., Epsom
Berry, W., Auckland
Black, G., Whangarei
Boylan, J. F., C.E., Auckland
Breakell, W. C., C.E., Hamilton
Brett, H., Auckland
Brigham, J. M., Auckland
Brock, A., Auckland
Broun, Captain T., Lake Takapuna
Bruce, Rev. D., Auckland
Buchanan, Jno., Auckland
Buchanan, J., Auckland
Buchanan, W., Auckland
Buckland, W. F., Remuera
Buddle, Rev. T., Epsom
Buddle, T., Auckland
Burgess, E. W., Devonport
*Burton, Captain, London
Burton, W., Auckland
Butt, W. A., Maketu

Cameron, R., Auckland
Cameron, W., Remuera
Campbell, J. L., M.D., Auckland

Carr, R. C., Remuera
Chamberlin, Hon. H., Auckland
Chamberlin, Mrs, Auckland
Chambers, J., Auckland
Chapman, G. T., Auckland
Cheeseman, T.F., F.L.S., Auckland
Ching, T., Auckland
Clark, A., Parnell
Clark, J. M., Remuera
Clarke, Ven. Arch. E. B., Waimate
Coates, J., Auckland
Cooke, C. E., Auckland
Cochrane, W. S., Devonport
Colbeck, W. H., M.H.R., Te Pahi
Connell, W. H., Auckland
Cooper, T., Auckland
Cosgrave, J., Auckland
Cowie, Right Rev. W. G., D.D.,
Bishop of Auckland
Cranwell, T., Parnell
Cruickshank, D. B., Auckland

Daldy, W. C., Auckland
Darby, P., Auckland
Dawson, F. W., M.R.C.S.E.,
Auckland
Dignan, Hon. P., Auckland
Dobson, Miss, Auckland
Douglas, Sir R., Whangarei
Dowden, W., Auckland
Dufaur, P., Auckland

Earl, W., Ohaewai
Edger, Rev. S., Auckland
Edson, J., Devonport
Elam, J., M.R.C.S.E., Tamaki
Ellingham, J., Ponsonby
Elliott, W., Auckland
Errington, W., C.E., Auckland
Esam, J. B., Auckland
Ewington, F. G., Auckland

Fairburn, J., Otahuhu
Fallon, D., Auckland
Farmer, J., London
Fenton, F. D., Auckland

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Firth, J. C., Auckland
Floyd, W. H., Christchurch
Fraser, G., Auckland
Fraser, —, Auckland
Fraser, Rev. J. M., Coromandel

George, C. S., Auckland
George, S. T., M.H.R., Kawau
Gibbes, J. A. O., Auckland
Gibbons, E., Onehunga
Gillies, His Hon. Justice, Auckland
Gittos, B., Auckland
Goldsboro', C. F., M.D., Parnell
Goodfellow, W., Otara
Gordon, W. P., Papakura
Gorrie, W., Auckland
Graham, W. K., London
Green, Major, Auckland
Grey, J., Auckland
Grey, W., Auckland
Greenway, J. H., Russell

Haines, C. H., M.D., F.R.G.S.,
Auckland
Hales, W. P., A.I.C.E., Auckland
Hammond, A. de L., B.A., Parnell
Hardie, J., Auckland
Harding, S., C.E., Auckland
Harker, N., Auckland
Harris, C. A., Auckland
Harrison, E. M., Auckland
Harrison, Miss, Auckland
Haultain, Hon. Col., Auckland
Hay, D., Parnell
Hay, J., Auckland
Hean, D., Auckland
Heale, T., Parnell
Heath, N., F.G.S., Auckland
Heather, A., Auckland
Henton, J. S., Auckland
Herapath, P., Auckland
Herapath, S. M., Auckland
Hesketh, E., Auckland
Hetley, C. F., Auckland
Herbert, T., Parnell
Hill, W. S., Auckland
Hobbs, R., Pokeno
Holdship, G., Auckland
Honeyman, J. H., M.D., Auckland
Hooper, J. H., M.R.C.S.E., Auckland
Howard, J., Auckland
Howden, G., Auckland
Hughes, S. E., Auckland
Hunt, R. R., Auckland
Hunter, A. H., Patea
Hurst, W. J., Auckland

Ireland, B., Parnell

James, J., Epsom
Johnstone, G., Auckland
Judd, A., Auckland

Kinder, Rev. J., D.D., S. John's
College
*Kirk, T., F.L.S., Wellington
Kissling, G. S., Parnell
Kissling, T., Parnell

Lamb, J., Riverhead
Lanigan, Pierce, Auckland
Larkins, F., Remuera
Larkworthy, F., London
La Roche, C., Auckland
*Leaf, C. J., F.L.S., F.G.S.,
London
Lee, W., M.D., Auckland
Lennox, J. M., Auckland
Leys, W., Auckland
Lindsay, J., C.E., Ngaruawahia
Lindesay, T., Onehunga
Lodder, W., Auckland
Lodge, W. F., Parnell
Luke, S., Otahuhu
Lusk, H. H., Auckland

MacCormick, J. C., Auckland
Macdonald, A. V., C.E., Auckland
Macdonald, J. E., R.M., Auckland
MacElwaine, J., Newton
Macfarland, R. J., C.E., Thames
Macfarlane, T., Auckland
Mackechnie, E. A., Auckland
Mackenzie, D. H., Auckland
MacLaughlin, W., Papatoitoti
Maclea, E., Cambridge
Maelean, J., Tamaki
Macmillan, C. C., Remuera
Macrae, F., Auckland
Mair, Capt. G., F.L.S., Rotorua
Mair, R., Whangarei
Mair, Major, W. G., Auckland
Maning, F. E., Auckland
Martin, J., F.G.S., Auckland
Masfield, T. T., Auckland
Maunsell, Ven. Archdeacon, W.,
Parnell

*Meinertzhagen, F. M., Napier
McColl, J., Newmarket
McCullough, W. M., Thames
Mitchell, W. L., Auckland
Mitford, G. M., Parnell
Moat, W. P., Mahurangi
Moore, J. Murray, M.D., Auckland
Morton, H. B., Auckland
Morrin, T., Auckland
Monro, H. A. H., Auckland
Moss, F. H., M.H.R., Parnell
Murdoch, D. L., Auckland
Murray, T. L., Thames

Nathan, L. D., Auckland
Nation, Col., Parnell
Nelson, Rev. C. M., M.A.,
Auckland
Newman, J., Remuera

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O'Rorke, Sir G. M., Auckland
O'Sullivan, R. J., Auckland
Owen, G. B., Auckland

Paul, Rev. Jas., Onehunga
Peacock, T., Auckland
Pierce, G. P., Auckland
Plumley, E. A., Auckland
Pond, J. A., Auckland
Pounds, J. E., Auckland
Purchas, Rev. A. G., M.R.C.S.E.,
Auckland

Rattray, W., Auckland
Rawlings, M., Parnell
Rayner, G., Coromandel
Reid, J., Auckland
Richmond, J., Auckland
Robertson, J., Auckland
Rose, R., Parnell
Runciman, Jas., Cambridge
Russell, Jas., Auckland
Russell, J. B., Auckland
Russell, T., C.M.G., London
Rye, Lewis, Otamatea

Sanders, C. W., Parnell
Scott, W., Paterangi
Sheath, A., Parnell
Shrewsbury, A., Parnell
Sinclair, A., Churchill
Slatter, J., Adelaide
Smith, G., Ponsonby
Smith, S. P., Parnell
Spicer, A., Auckland
Stewart, J., C.E., Auckland
Stewart, T. M., Melbourne
Stockwell, W., M.R.C.S.E., Auckland
Stodart, Mrs Jas., Ponsonby
Stoddard, Mrs General, Ponsonby
Stone, C. J., Auckland
Street, C. H., Parnell

Taylor, A. K., Mount Albert
Taylor, J., Auckland

Thomas, Captain, Parnell
Thomson, Neil, Mahurangi
*Tinne, H., Tamahere
Tinne, T. F. S., Auckland
Tonks, B., Auckland
Tunny, J. M., Auckland
Tyler, E. K., Auckland

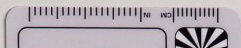
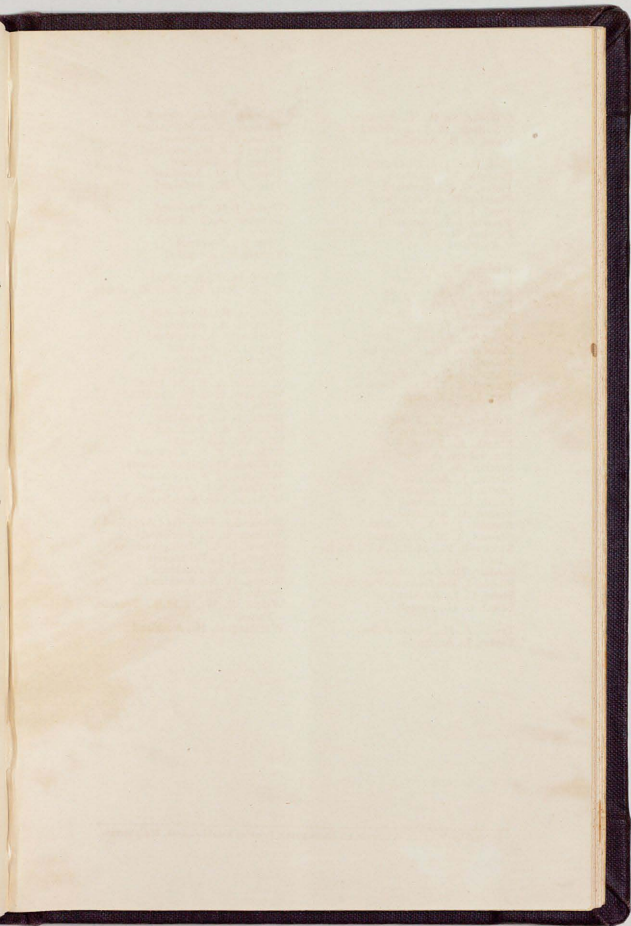
Upton, J. H., Auckland
Urquhart, A. T., Karaka

Vaile, S., Auckland
Vickers, S., Auckland

Wade, H. G., Auckland
Wallis, Rev. Dr, M.H.R., Auckland

Watkins, K., Devonport
Watt, H. A., Auckland
Waymouth, J., Auckland
Wayte, E., Auckland
Webster, J., Hokianga
Weetman, S., Auckland
Whitaker, A. E., Auckland
Whitaker, Hon. F., Auckland
White, F. A., Auckland
White, T. L., Auckland
Whitson, R., Auckland
Will, W., Auckland
Willcocks, E. S., Auckland
Williams, H., Bay of Islands
Williams, H. E., Auckland
Williams, S. J., Auckland
Williams, Ven. Archdeacon, W. L.,
Gisborne
Williamson, Hon. Jas., Auckland
Williamson, C., Auckland
Wilson, D. C., Maungakaramea
Wilson, J. I., Whangarei
Wilson, J. L., Auckland
Wilson, W. S., Auckland
Winks, J., Parnell
Wright, F. W., L.M.B., Toronto,
Parnell
Worthington, H., Auckland

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